FEB 07 2012 K.C. D.D.E.S.

DOWNSTREAM ANALYSIS for

TALL CHIEF COUNTRY CLUB RESIDENTIAL PLAT PROJECT

Location: 1313 W. SNOQUALMIE RIVER ROAD FALL CITY, WA 98024

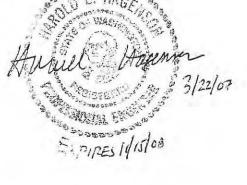
> DECEMBER 23, 2004 Revised March 22, 2007

> > By

Hagenson Consultants, LLC Seattle, Washington 98136

HC Job No. 200422

K.C Project # L04P0032



### VII. APPENDIX

# OFF-SITE ANALYSIS (DOWNSTREAM DRAINAGE ANALYSIS)

A review of the County's Storm and Surface Water Comprehensive Plan shows that the study area lies within the both the Patterson Creek basin and the Snoqualmie River Basin.

### Patterson Creek Basin

Drainage from the on site hillside is carried in onsite gullies to the valley floor at several locations spaced along the hillside toe. There, it is concentrated in the slough (wetland A) and is thought to flow towards Patterson Creek, some 600 to 800 feet east of the SE property corner. Paterson Creek, in turn, joins the Snoqualmie River within 1000 feet northeast of this point.

While K.C. published basin limits support this conclusion, Country Club personnel and locals with many years of experience in the area, report that Patterson Creek floods often over bank and send water northward through wetland A onto the Country Club. Floodplain delineations show that this area is within the limits of the common floodplain for both Paterson Creek and the Snoqualmie River. While this condition may exist during high flow events, the preponderance of lower flows may tend to drain toward Patterson Creek, partly due to it's very close proximity to the SE corner of the Site. Nonetheless, arguments may be made that the County basin delineation is suspect, and all of the site flows are generally discharged towards the Snoqualmie basin, to the north and east.

Visual reconnaissance of the downstream system revealed no visible indications of scour, flooding, overtopping, or sedimentation, although frequent flooding normally brings some silt deposition. A review of the County's I-map system and project wetland delineations indicated Wetland A to be a large, Class I wetland, partially onsite and partially offsite. Drainage complaints collected for the project do not indicate any complaints relevant to Patterson Creek.

### Snoqualmie River

Drainage from the project and portions of the upstream/offsite hillside are collected in the Country Club golf course wetlands C, D and F. Club personnel report that old mapping indicates these wetlands are connected by a named creek. Geomorphologically, the hillside/valley relationship is likely created by local seismic faults, and this ancient creek bed followed the hillside toe, much the same as it does today.

A series of small channels and a 36" cmp culvert connect these onsite wetlands and discharge runoff to the north, in a channel which had historically been dredged and maintained, but which has recently been neglected. This channel runs due north through the abutting slough for some 1700' to a point where it crosses under the Main St. E. Bridge.

Visual reconnaissance of the downstream system revealed no visible indications of scour, flooding, overtopping, but local deposition of silts and sediment is causing the ditch to aggrade (fill in). A review of the County's I-map system and project wetland delineations indicated Wetland to the north of the site to be a large, Class I wetland. Drainage complaints collected for the project are included in this report in synopsis form. Many of the collected complaints deal with conditions on the opposite (right) bank.

Upstream drainage is currently directed in a sheet flow fashion through heavily wooded and moderately steep terrain toward the valley floor. In several locations, this drainage has concentrated onsite and has created gullies with evidence of sour and/or erosion.

A developed plat exists west of the westerly boundary of the project. However, it lies west of the ridge, such that the plat's drainage is in a separate basin from that of the project.

# OFF-SITE ANALYSIS DRAINAGE SYSTEM TABLE Surface Water Design Manual, Core Requirement #2

Basin: SHO QUALAMIE Subbasin Name: JANICKE SUBBASIN Number:

Drainage Component Type, Name, and Size	Drainage Component Description	Slope	Distance from site discharge	Existing Problems	Potential Problems	Observations of field inspector resource reviewer, or resident	
Type: sheet flow, swale, stream, channel, pipe, pond; Size: diameter, surface area	drainage basin, vegetation, cover, depth, type of sensative area, volume	%	1/4 ml = 1,320 ft	overtopping, flooding, habitat or organism destruction, scouring, bank sloughing.		tributary area, likelihood of problem, overflow pathways, potential impacts.	
DISCH DRUG			0				
SLODEH DITUH	HEAVY VEGETATION	<1%	1700	DEPOSITION	AGGRADATION/ DEPOSITION	NEEDS DILEOGIUG.	
BRIDGE MAIN STE	11	11	1700.	ţ.i	lt	u	
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f	1						
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The same of the sa	Component Type, Name, and Size Type: sheet flow, swale, stream, channel, pipe, pond; Size: diameter, surface area SME DISCH DISCH SLOUGH DISCH	Component Type, Name, and Size  Type: sheet flow, swale, stream, channel, pipe, pond; Size: diameter, surface area  SHE DISCH DIGH  BRIDGE MAIL STE  Description  Description  drainage basin, vegetation, cover, depth, type of sensative area, volume  transport to the depth type of sensative area, volume  depth, type of sensative area, volume  to the depth type of sensative area, volume  surface area  SHE DISCH DIGH  BRIDGE MAIL STE	Component Type, Name, and Size  Type: sheet flow, swals, stream, channel, pipe, pond; Size: diameter, surface area  SHE DISCH DRUE  SLODER DRUE  MAIN STE  Description  drainage basin, vegetation, cover, depth, type of sensative area, volume  **Cover of the cover of	Component Type, Name, and Size Type; sheet flow, swale, stream, channel, pipe, pond; Size: diameter, surface area  SITE DISCH DRUE  MAIN STE  Description from site discharge  from site discharge  1/4 ml = 1,320 ft  1/4 ml	Component Type, Name, and Size  Type; sheet flow, swale, stream, channel, pipe, pond; Size; diameter, surface area  SITE DISCH DRUE  SLODER DRUE  MAIL STE  Description  Description  from site discharge  constrictions, ure over, we form site discharge  constrictions, ure over, we fo	Component Type, Name, and Size  Type: sheet flow, swale, stream, channel, pipe, pond; Size: diameter, surface area  SLODEH DITCH  BRIDGE  MAIL STE  Description  Description  from site discharge  Constrictions, under capacity, ponding, overtopping, flooding, habitat or organism destruction, scouring, bank sloughing, sedimentation, incision, other erosion  AGGRA DATION/ DEPOSITION  1700  1700  DePOSITION  1700  II  1700  II  II  II  III  III	

# OFF-SITE ANALYSIS DRAINAGE SYSTEM TABLE Surface Water Design Manual, Core Requirement #2

Basin: SAID QUAAMIE Subbasin Name: PATEIZSON CREEK Subbasin Number:

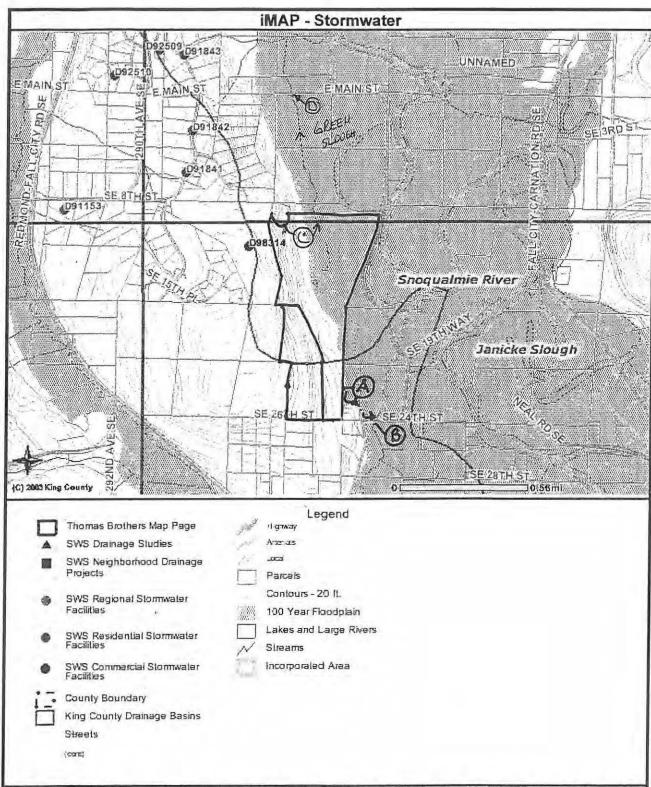
Symbol	Drainage Component Type, Name, and Size	Drainage Component Description	Slope	Distance from site discharge	Existing Problems	Potential Problems	Observations of field Inspector resource reviewer, or resident
see map	Type: sheet flow, swale, stream, channel, pipe, pond; Size: diameter, surface area	drainage basin, vegetation, cover, depth, type of sensative area, volume	%	1/4 ml = 1,320 ft	constrictions, under capacity, ponding, overtopping, flooding, habitat or organism destruction, scouring, bank sloughing, sedimentation, incision, other erosion		fributary area, likelihood of problem, overflow pathways, potential impacts.
A	HILLSIDE	DRAILISTO SLOUGH		6	N/A		
A-B	SLOUGH	ALLONG HILLSIDE	<1%	600	NONE	DEPOSITION	*
B	POTERSON CREEK						
			-				
				0			
					-		

# DOWNSTREAM MAP



Home

Services Comments



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### Task 1 (2005 KCSWM Pg 2-10) Study Area Definition and Maps

The study area extends from approximately 500 feet upstream to 1/3 mile downstream from the site as shown on the included mapping. A parcel report and map are included as well as Imap topography, Imap drainage complaint mapping, Imap Sensitive Areas Mapping, Imap Hydrographic Information mapping, and appropriate legends.

### Task 2 Resource Review

- Basin Plans- A check of DNR web publishing lists indicates there is no Snoqualamie River nor Patterson Creek Basin Plan.
- Drainage Studies- The South Fork Snoqualamie River Feasibility Report was preempted prior to completion and studied flooding remedies in the North Bend area.
- Basin Reconnaisance Summary Reports—The Patterson Creek Basin Reconnaisance Report describes land use, geology and stream habitat. There are no apparent project specific relevant findings.
- Critical Drainage Areas –Imap, FEMA and project specific surveys indicate that portions of the site lie within the Snoqualamie 100 year floodplain
- FEMA maps A review of FEMA mapping indicates the site lies within the 100 year floodplain.
- Other Offsite Analysis Reports- A check with DDES Records Staff indicates there
  are none for this area
- Sensitive Areas Folio Imap Sensitive Area Mapping is included herewith and there are floodplains, wetlands, steep slope/Landslide hazards, and aquifer recharge areas noted within the study area.



Services Comments

# PARCEL REPORT

**Districts and Development** Conditions

for Parcel number: 0524079002



BY LAW THIS INFORMATION MAY NOT BE USED FOR COMMERCIAL PURPOSES.

**Administrative Districts and Areas** 

Address	1313 WEST SNOQUALMIE RIVER RD SE
Jurisdiction	King County
Zipcode	98024
King County Council District (COUNCIL IN TRANSITION)	Council District:3 Council Member: <b>Kathy Lambert</b> Phone: (206) 296-1003 Web site
School District	Snoqualmie Valley #410
Fire District	King County Fire Protection District No. 27
Water District	None
Sewer District	None
Water and Sewer District	None
Water Service Planning Area	Fall City Water District
Tribal Lands	No

Planning Designations

	ig besignations
King County Zoning	RA-10 (split zoning, check a map to verify) A-35 (split zoning, check a map to verify) RA-5-SO
Comprehensive Plan Land Use	rr
Urban Growth Area	Rural
Community Planning Area	Snoqualmie
Unincorporated Area Council	None
P-Suffix Conditions	None
Kroll Map Page	B35
Thomas Guide Map Page	599
Agricultural Production District	No
Forest Production District	No
Roads MPS Zone	143

Transportation Concurrency Zone 360

### **Environmental Areas**

=111110	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Drainage Basin	Snoqualmie River and Patterson Creek
Rural Clearing Limits Apply	Yes (Verify that the RA-* Zoning is valid)
Watershed Name	Snoqualmie River and Snoqualmie River
WRIA Name	Snohomish and Snohomish
WRIA Number	7 and 7
Wetland	ID = 5382B Rating = 4 (NWI) ID = 5384B Rating = 4 (NWI) ID = 5339 Rating = 2
100-Year Flood Plain	Yes
Coal Mine Hazards	None mapped
Erosion Hazards	Yes
Landslide Hazards	Yes
Seismic Hazards	Yes
Critical Aquifer Recharge Area	Class 2
Assessor Prope	rmitting Information rty Characteristics Report High Speed Internet Connection)

Zoom to Parcel - iMAP (High Speed Internet Connection) Zoom to Parcel - Parcel Viewer (All Internet Connections)

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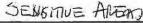
This report was generated: 3/22/2007 3:59:22 PM

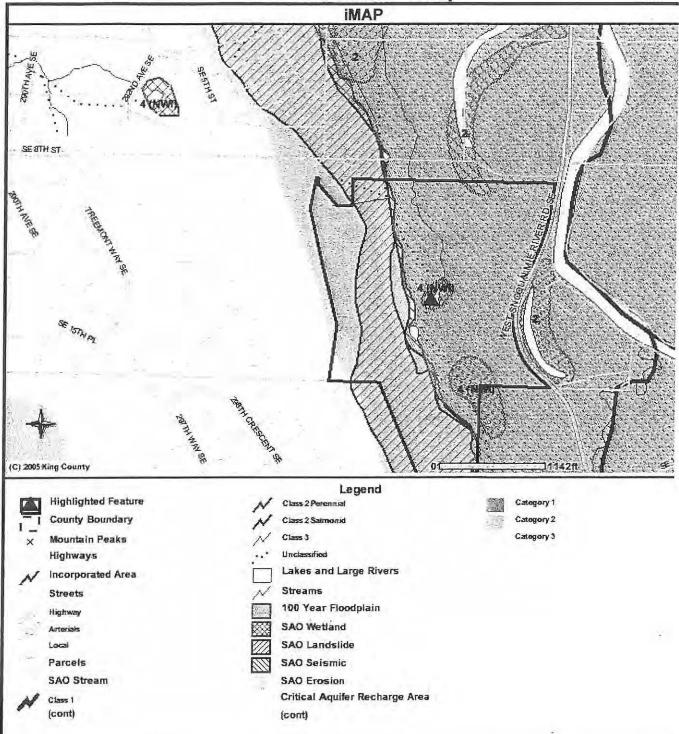
Enter a 10 digit Parcel Number:

or Enter an address:

Search





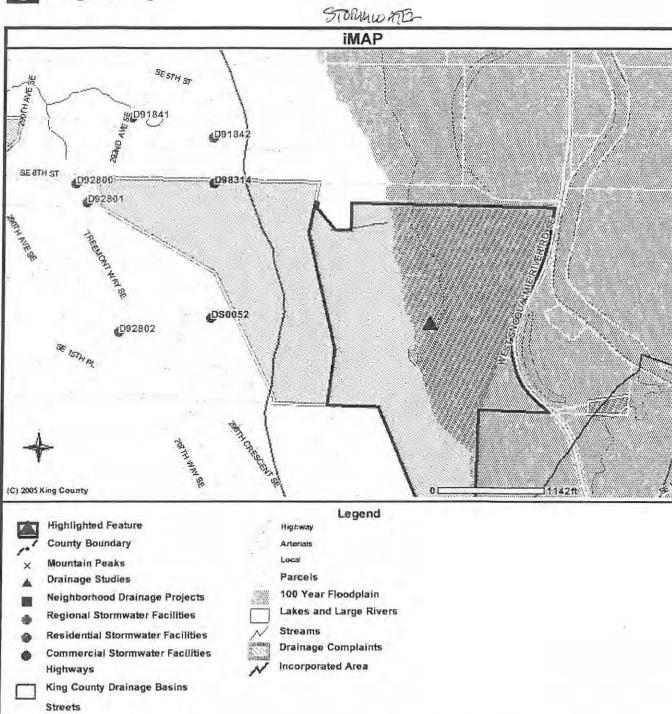


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Date: 3-22-2007 Source: King County iMAP - Sensitive Areas (http://www.metrokc.gov/GIS/iMAP)

# King County

(cont)



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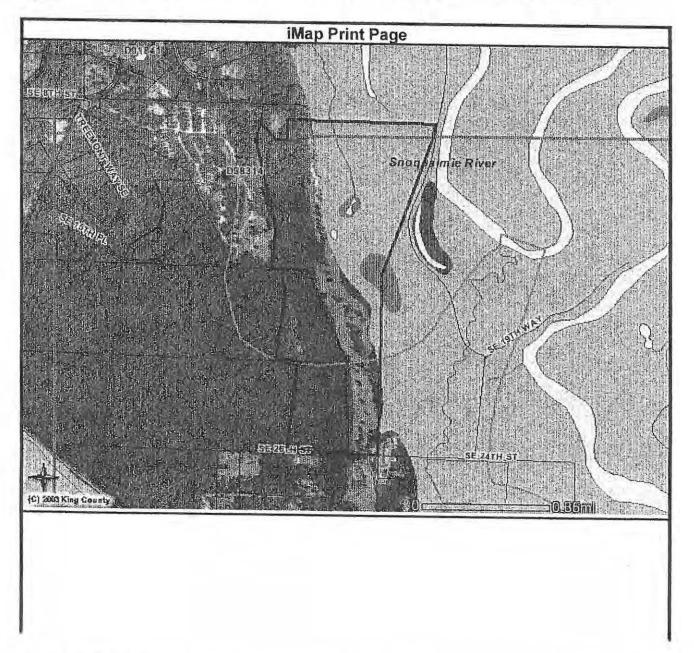
Date: 3-22-2007 Source: King County iMAP - Stormwater (http://www.metrokc.gov/GIS/iMAP)

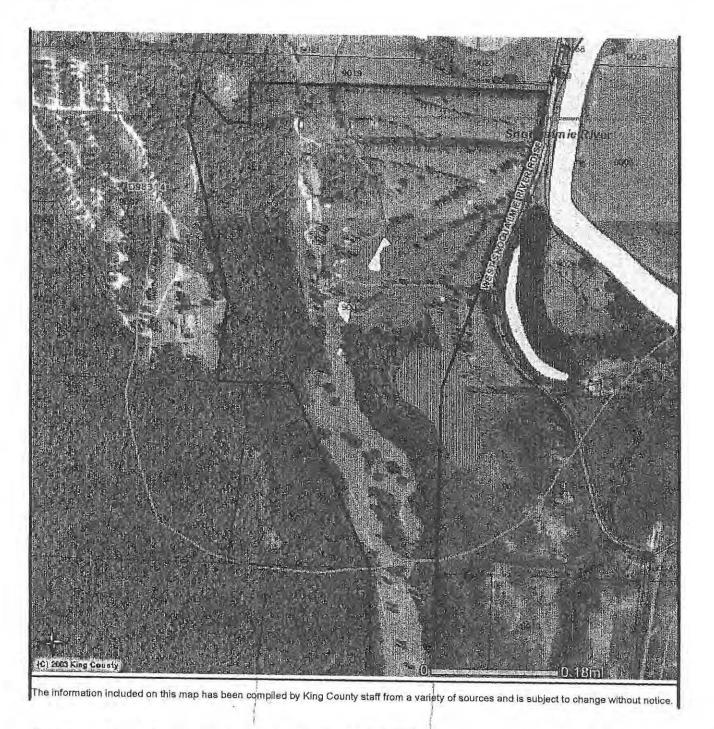




King County

Comments Search





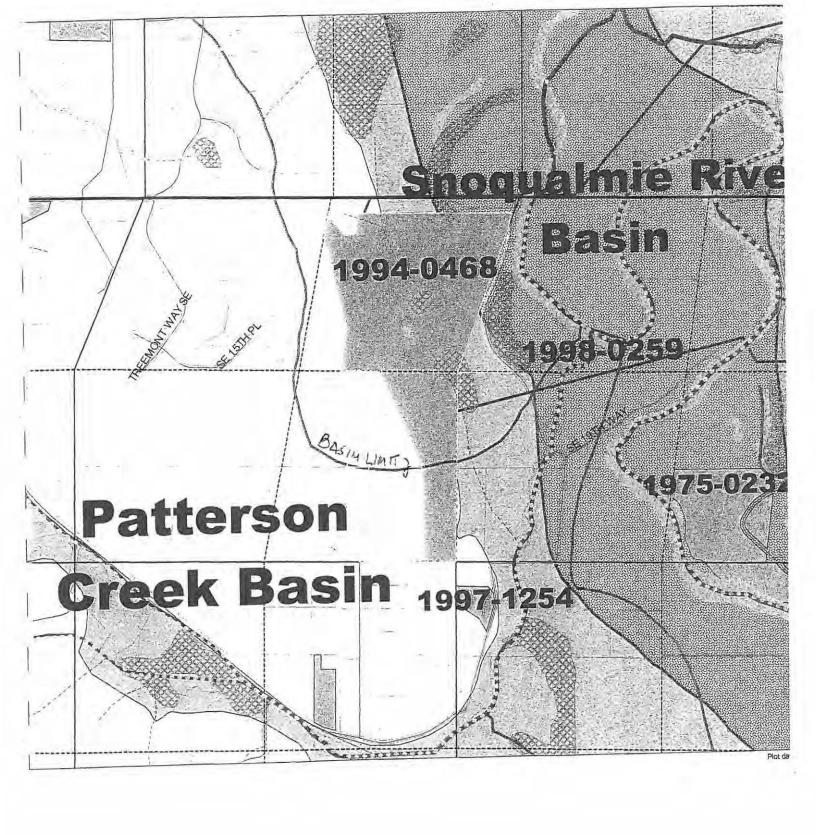
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Ties.	Selecied Features	N	Legend Streams	
1	County Boundary		1990 National Weltanu Inventory	
ENGPLE .	Thomas Brothers Map Page	No.	Wellands	
di	SWS Drainage Studies	原間	1990 King County Welland Survey	
	SWS Neighborhood Drainage	30.01	100 Year Floodplain	
	Projects		Parcet	
1,0	SWS Regional Stomwater		Cities	
¥.	Facilities SWS Residential Stormwater		2000 Coor Imagery (East King County)	
100	Facilities		1998 BW Imagery (countywide)	
•	SWS Commercial Stormwater Facilities			
1	King County Drainaga Basins			
N	Streets			
	Lakas and Large Rivers			

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- DNRP Drainage Complaints and Studies- A listing of all drainage complaints within the area was received from DDES Records Staff and included herewith. Specific complaints were obtained based on their proximity to and/or location within the study area, as well as their specific dates (note complaints older than 10 years are not included per footnote, page 2-11). A summary table is included below:

Complaint No.	Address	Problem Description	Resolution
1997-1254	2412 Neal Rd	(not in project sub-basin) Water Quality issue not pertinent	N/A
1998-0259	1530 W Sno- qualamie Rd	Water Quality Issue- not pertinent	cc
2003-0820	SE 24 <sup>th</sup>	Manure discharge to Creek	Permitted Manure Lagoon overflowed In rain event

## King County Water and Land Resources (WLR) Division

201 S Jackson St. Suite 600 Seattle, WA 98104-3855

FAX

Date:

Number of pages including cover sheet:

From: Cindy Torkelson

WLR Stormwater Services Section

Phone: 206-296-1900 Fax Number: 206-296-0192

IMPORTANT LEVEL 1 ANALYSIS NOTE: We do not send copies of certain complaint types that are not relevant such as BCW, FI, FIR, FIH and WQA, and we do not send CL and LS types. See key below. Type S1, S2 and S3 will not be faxed due to size constraints.

The following is a list of complaint types received by the Water and Land Resources Stormwater Services Section. Complaint numbers beginning prior to 1990-XXXX have been archived and are no longer in our possession. They can still be retrieved, if necessary, but will take additional time and may not be beneficial to your research due to their age, development which has occurred, etc. If you are interested in reviewing the actual complaints, they can be pulled (time permitting) for your review. Copies can be obtained for \$ .15 per page, and \$2.00 per page for plans.

### Keys:

Type of Inves	stigation	Type of Problem	
C	Action Request	DCA	Development/Construction
BCW	Business' for Clean Water	DDM	Drainage - Miscellaneous
CCF	Response to Inquiry	DES	Drainage - Erosion/Sedimentation
*CL	Claim	DLE	Drainage - Landslide/Barth Movement
EH	Enforcement on Hold	DTA	Drainage Technical Assistance
ER	Enforcement Review	INQ	Drainage - General Inquiry
PCC,FCR,PCS	Facility Complaints	MMA	Maintenance - Acethetics
FI	SWM Fee Inquiry	MMF	Maintenance - Plooding
FIR	SWM Fee Review	MMG	Maintenance - General
FIH	SWM Fee on Hold	MMM	Maintenance - Mowing
*LS	Lawsuit	MNM	Maintenance - Needs Maintenance
RR	Facility Engineering Review	- MNW -	Maintenance-Noxious Weeds
NDA		SWF	SWM Fee Questions
WQC	Water Quality Complaint	WQB ·	Water Quality - Bost Management Practices
	Water Quality Enforcement	WOD:	Water Quality - Dumping
	Water Quality Engineering Review	WQI	Water Quality - Illicit Connection
WQA	Water Quality Audit	REM	SWM Fee -Remeasurement
WOO	Water Quality - Other	GRT	SWM Fce-Grant
\$1,52,5N3	Engineering Studies	NWD	SWM Pce-New Discount
	Type of Investor  C  BCW  CCF  *CL  EH  ER  PCC,FCR,PCS  FI  FIR  HIH  *LS  RR  NDA  WQC  WQC  WQC  WQC  WQA  WQO  WQO	Type of Investigation C Action Request BCW Business' for Clean Water CCF Response to Inquiry  *CL Claim EH Enforcement on Hold ER Enforcement Review PCC, FCR, PCS Facility Complaints FI SWM Fee Inquiry FIR SWM Fee nquiry FIR SWM Fee on Hold  *LS Lawsuit RR Facility Engineering Review NDA Neighborhood Drainage Assistance WQC Water Quality Complaint WQE Water Quality Enforcement WQR Water Quality Engineering Review WQA Water Quality Audit WQO Water Quality — Other	Type of Investigation C Action Request DCA BCW Business' for Clean Water DDM CCF Response to Inquiry DES *CL Claim DLE EH! Enforcement on Hold DTA ER Enforcement Review INQ PCC,FCR,PCS Facility Complaints MMA FI SWM Fee Inquiry MMF FIR SWM Fee Review MMG FIH SWM Fee on Hold MMM *LS Lawsuit MNM RR Facility Engineering Review MNM NDA Neighborhood Drainage Assistance SWF WQC Water Quality Complaint WQB WQR Water Quality Engineering Review WQI WQA Water Quality Linguistering Review WQI WQA Water Quality Engineering Review WQI WQA Water Quality Linguistering Review WQI WQA Water Quality Audit REM WQO Water Quality Other GRT

<sup>\*</sup>Subject to Public Disclosure requirements I. Receipt of written request for documents 2. Review and approval by Prosecuting Attorney's office

# King County Water and Land Resources Mylston - Drainage Services Section

Complaint Searoh Printed: 11/15/2004 1:53:31 PM

Complaint Number	Type Code	Type of Problem	Addr	135 0	f Problem	Comments	Thrus Page
× 1975-0230	С	FLD	2220		NEAL RD SE A CLUS DIVEN	DAMAGE/SNOQUALMIE RIVER	599C1
£ 1975-0231	C	RIP-RAP	2220		NEAL RD SE 11	SNOQUALMIE RIVER	599C1
¥ 1975-0232	C	EROSION	2220		NEAL RD SE	SNOQUALMIE RIVER CHANGING COURSE	599C1
* 1977-0108	C	FLDG	1931		SNOQ RIVER RD		599C1
※1978-0115	C		1931		W SNOQ RIVER RD	TRAILER IN FLOPLAIN/LEFT BANK/SNOQ	599C1
¥1981-0281	C	DRNG	PO BX		I FALL CITY	FIREWOOD & TOP SOIL IN FLD PLAIN	599C1
*1989-0014	C	DRNG	31529	SE	40TH ST	(OFF R/W) SYSTEM SILTED	599C1
<b>%1989-0014</b>	ER	DRNG	31529	SE	40TH ST	SYSTEM NEEDS SCREEN(OFF RAW).	599C1
¥1997-1254	WQR	WQA	2412		NEAL RD 11 " SE		599D2
±1998-0259	WQC	CREEK	1530	W	SNOQUALMIE RVRD SE		599C1
¥2003-0820	WQC	WQI	E OF 30		& SE 24TH ST	ALLEGED DISCHARGE OF MANURE INTO	599C2

	IAGE INVESTIGATION F	EPURI
PROBLEM: Olicik distance	nvestigation Request	Type WQC
FROBLEM. (MACON TOTAL TO	11/16	2000 2600
RECEIVED BY: WF FILTS:	Date: (1/18 OK'd by:	FILE No. 2003 (56.20
Received from: DOE ELTS	OOE (Day	4255 celletter 006
NAME: Cively Callahan	n NURO PHONE 64	9-7059 949-1555
ADDRESS:	City	State Zip
LOCATION OF PROBLEM, IF DIFFERENT:	of 209th Quest	on SE 24m ST
Access Permission Granted C	all First (Would Like To Be Present)	7
	The state of the s	allan numerta
6" pipe m	patterson creek.	accel magnes
le a de la contraction de la c	March Attanish	the Mrc
manure is being	pumped Strough	
	*	
Plat name:		Lot No: Block No:
Other agencies involved:	Manual Comments of the Comment	No field investigation required
	SALES OF SOME STATE OF SECTION OF	FERRE
S T R Parcel No	0424079013 Kroll W	935 Th Bros: New 59902
74 5 1 K 121051 NO	William States	THI.DIUS. INCW
and a first control of the control o		
RDP 85 Basin DAT, Council I		Charge No.
	Odrada	
RESPONSE: Citizen notified on 1/16 - SENT ALL E-MAIL TO CIVIDY COPERATION/HUNDLING OF MANUAL NOTA MENALLY INTERPRETARIES.	Odrada	letter in person HAT ALL STATE DELETED TO SCIENT PROGRAM OF WATA)
RESPONSE: Citizen notified on 1 16  SENT ALL E-MAL TO CIVIDS OF MANUAL TO CIVIDS OF MANUAL TO MA	by: EMALT PHONE ALLAMAN (CC:) IN FOLLOW TO TE TO DE DISCHARGE TO TE LINESTOCK NUTTURN MANA  /// by OR: No further  /// by OR: No further  /// SH ST. DEPT	letter in person  HAT ALL THE WILL BE PETTONE  SING PROGRAM OF WAITA)  Traction recommended because:
RESPONSE: Citizen notified on 1 16  SENT ALL E-MAIL TO CIVITY OF MANUAL PROPERTION HANDLING OF MANUAL DISPOSITION: Turned to on  A Lead agency has been notified: W	by: EMALT PHONE ALLAMAN (CC:). IN FOLLOW TO TE TO DE DISCHARGE TO TE LINESTOCK NUTTURN MANA  /// by OR: No furthe  /// BY ST. DEPT	letter in person  Har August Military France  King france will be france  France of Walla)  r action recommended because:  Prior investigation addresses problem:
RESPONSE: Citizen notified on 1 16  SENT ALE-MAL TO CIVID COPPEND HANDLING OF MANUAL DEPOSITION: Turned to on  Problem has been corrected N  Private problem - NDAP will not cons	by: EMALT PANE  ALLAMAN (CC:). IN FOLMONG TO  E TO DE DISCHARCE TO TO  LINESTON HOTTHENT MANA  OR: No further  TO Problem has been identified.  Sider because:	letter in person  HAT ALL THE WILL BE PETTONE  SING PROGRAM OF WAITA)  Traction recommended because:
RESPONSE: Citizen notified on 1 16  SENT AN E-MAL TO CIVID G  PERATURAL HANDLING OF MANUA  DISPOSITION: Turned to on  Problem has been corrected N  Private problem - NDAP will not cons	by: EMALT PHONE ALLAMAN (CC:) IN FOLMING TO E TO BE DISCHARGE TO TO LIVESTONC NUTRIENT MANA  OR: No further TO ST. DEPT	letterin person  Har August Price will be for the commended because:  Prior investigation addresses problem:  SEE FILE #
RESPONSE: Citizen notified on 1 16  CENT AN E-MAL TO CIVITY OF MANUAL PROPERTY OF THE PROPERTY OF	by: EMALT PART  ALLAMAN (CC:). IN FOLING TO BE DISCHARGE TO BE  LIVESTOCK NOTTHENT MANA  OR: No further  ASH ST. Livestock  To problem has been identified.  Sider because:  site and/or on neighboring parcel.	letter in person  Har August Military France  King france will be france  France of Walla)  r action recommended because:  Prior investigation addresses problem:
RESPONSE: Citizen notified on 1 16  SENT AND E-MAIL TO CIVITY OF MANUAL PROPERTION: Turned to on  Problem has been corrected N  Private problem - NDAP will not cons	by: EMALT PART  ALLAMAN (CC:). IN FOLING TO BE DISCHARGE TO BE  LIVESTOCK NOTTHENT MANA  OR: No further  ASH ST. Livestock  To problem has been identified.  Sider because:  site and/or on neighboring parcel.	letterin person  Har August Price will be for the commended because:  Prior investigation addresses problem:  SEE FILE #

KING COUNTY WATER AND LAND RESOURCES DIVISIC 4020 F. 24

MAK. ZZ. ZUUT Z:UITM KING CU. WEKU.

### Department of Ecology - Environmental Report Tracking System

Initial Report			ERT	S # 537413	External Reference #				
Caller in	formation				Where did it happen Business or	•	Report #:	5749	
	* Name C	irst Sindu	Middle	Last	Location: Small Farm				
	Name C Susiness Name E			Callahan	Address SE 24th St				
-		25-649-7059			Other Address				
	Other Address	20-045-7055			City, State, Zip FALL CITY	WA			
	City, State, Zip		WA		County, Region KING	NWRO	FSID		
	E-mail		VYA		WRIA#				
	E-111011			Confidential [	Waterway Patterson Creek		Type		
	External Ref. #			Collingantial [	Latitude	Longi	tude		
,					Topo Quad 1:24,000 FALL CIT	TY			
	Phone	Ext	Туре		Directions/Landmarks				
	(206) 945	9-1555	Mobile		(mile post, cross roads, township/range	∍)			
					River mile 31.2, Located where the cr		2,11,12,1		
			.9						
What Hap		14/47/0000	,		Primary Potentially Responsible Par	ty			
What Hap	Incident Dat	e 11/17/2003		me	Primary Potentially Responsible Par		Last		
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More info

Caller reported a six inch pipe crossing the creek. Caller suspects that manure is being primped through pipe and could be a obstruction in creek. I have notified Bob Pflefer of WDFW (425-379-2309)

Entry Person: STEGMAN, GREG

Entry Date:

11/17/2003



### DRAINAGE INVESTIGATION REPORT FIELD INVESTIGATION

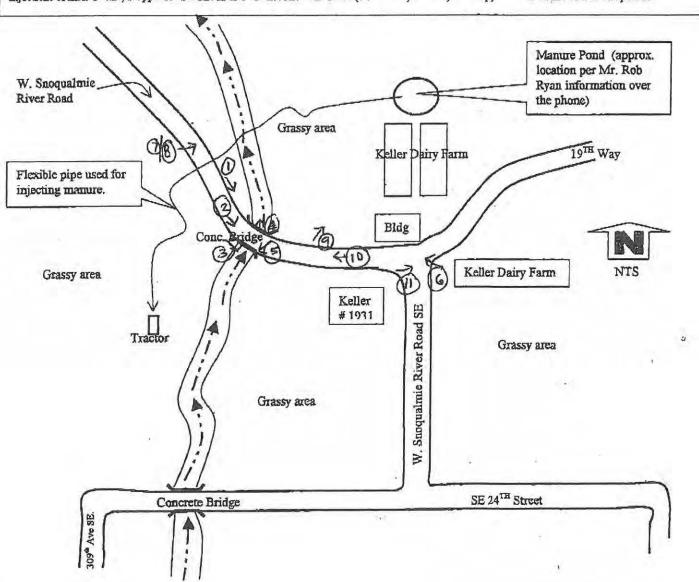
NAME: CIND CAME DATE

ADDRESS: DOE-ERTS #537413

PHONE: (425) 649-7059 & Cell: (206) 949-1555 DATE OF INVESTIGATION: 11-25-03 & 12-INVESTIGATED BY: Virgil Pacampara

I went to the site on 11/24/03 to investigate an illicit discharge at East of 309th Patterson Creek. That the caller suspects manure is being pumped through the pipe. The description of the first location seems does not matched w/ the instruction. I spoke with Cindy Callahan about the complaint. She has some concern: 1) that they injected the manure at rainy season (11/17/03) which is not potential. 2) That heavy storm occurred on the following day (11/18/03). The manure may have been washed—out to Patterson Creek impacting the Salmon bearing creek. 3) That they use flexible pipe attached to tractor out in field and pump to his tractor. It appears that the pipe that was been used for injecting manure was been removed already during the investigation. The group of Callahan has conducted water sample at Patterson creek and result appears negative at the lower creek. I revisited the site on 12/22/03. I was able to locate the property and residence of Mr. Steve Keller. I used the photographs (send by Miss Callahan) as reference during the re-visit. I spoke to Mr. & Mrs. Keller regarding the complaint on elicit discharged and other concerns of Miss Callahan. The Keller told me that they are conducting the manure injection and other farm activities per regulations. They referred me to Rob Ryan (Keric Conservation District). He is the contact person for decision & management of the nutrients/installing manure. Mr. Ryan added that it is usually months of spring for manure application and, added that it was unusual for the Keller to inject during rainy season. It appears that they may have hired contractor to do the injections of manure last 11/17/03.

Mr. Neil Larming of WS Dept. of Agriculture has informed me that Mr. Rob Ryan contacted him regarding the Keller complaint. Per our phone conversation (w/ Lanning), he told me that they sent-out a letter to different Conservation Districts and to WA. State Dairy Federations about the injections of manure and, it appears that The Keller did not know the letter (send-out by WSDA). See copy of letter on file of this complaint.





### DEPARTMENT OF AGRICULTURE

P.O. Box 42560 • Olympia, Washington 98504-2560 • (360) 902-1800

October 27, 2003

TO:

Debbie Becker, Western Washington Conservation Districts

Ron Shavlik, Western Washington NRCS Offices

FROM:

Nora Mena, Manager

Livestock Nutrient Management Program

SUBJECT:

Lagoons

With the recent record rainfalls many lagoons have captured unusually large amounts of precipitation for this time of year. We understand that there may be some facilities that anticipate that they will not have enough capacity remaining to hold manure and normal precipitation until next spring when applications would normally start up again.

If remaining lagoon capacity is not adequate to avoid over flowing before spring, dairy operators will need to reduce the stored quantities in a manner that avoids any discharge to surface or ground water. One method is to make additional field applications when the chances of runoff is the lowest possible, rather than being put in a position of having to pump during a rain storm in January or February. In working with operators who are concerned over their capacity, we offer the following considerations:

- 1) Wait until the ground is not saturated and there is only a low chance of significant rainfall that could cause runoff.
- Increase buffers between application areas and surface waters or ditches to reduce potential for runoff.
- Apply at low rates two light applications to the same ground would be better than one heavy application.
- Pick fields that are well drained, out of flood prone areas and have a crop, such as grass, in place.
- 5) Soil temperatures below 50 degrees are preferred, particularly in sensitive groundwater
- 6) Target Nov 15 as the last day for field applications.
- 7) Operators should notify the District or NRCS staff prior to application

In working with operators, the Conservation District of National Operators on these issues:

- 1) How much needs to be pumped,
- 2) Appropriate application rates,
- 3) Fields identified for application,
- 4) Adequate buffers from ditches, streams, wetlands, etc.,
- 5) Acceptable days for pumping, and
- 6) Other site specific requirements that may appropriate.

It will helpful for WSDA staff to be aware of such activity, particularly if we receive complaints about late season applications. Consequently, we would appreciate being notified when these additional applications take place and by whom. Please contact Neil Lanning with a short message stating the dairy name, dairy operators name, and application dates. He can be reached at, nlanning@agr.wa.gov, or at 360-902-2052.

Our conclusions are (1) Continued maintenance of the major culvert and bridge crossings are important to prevent future flooding. (2) Both the Paterson Creek and Snoqualmie Basins are representative of alluvial valley streams, exhibiting characteristics of both aggradation (in flatter areas such as meadows and ponds) and degradation (in steeper gullies and ravines). The normal geomorphology in this environment creates some areas of stream bank erosions, and some areas of localized ponding and flooding. Meeting the storm water flow control and water quality code requirements by directly discharging to the Snoqualamie River before peak flood conditions arise from upstream sources can effectively mitigate impacts from proposed developments.

An offsite Analysis Drainage System Table (98 KCSWM ref 8-B) is included as well as a photo album and photo legend.

Tall Chief Downstream Analysis Photo Index

Pho	to # Orientatio	n Description
1	SW	SE corner from 15 <sup>th</sup> Tee
		18" cmp & ditch along S. Prop Line
2	SE	Offsite gully SE of 15th Green
3	N	Erosion on west face of Gully
2 3 4 5	NW	Erosion on West face of Gully
5	S	Typical fairway on back 9 holes, undulating topography
6	NW	Wetland B gully north of 17 <sup>th</sup> Tee
7	N ·	Wetland B gully north of 17th Tee
6 7 8 9	NE	Wetland B gully north of 17th Tee
9	NE	Panorama 500' S of Clubhouse
10	E	Panorama 500' S of Clubhouse
11	NE	Panorama 200' S of Clubhouse
12	E	Panorama 200' S of Clubhouse
13	S	Panorama from Snoq. River Road near Wetland A
14	SW	LC.
15	W	56
16	NW	44
17	N	36" CMP into Wetland F under access road
18	E	Wetland E outlet into braided slough ditch @ N prop line
19	N	Slough ditch 200' N of site
20	N	Slough ditch 600' North of site
21	S	Bridge crossing @ slough ditch & E Main St 1700' N of site
22	N	"
23	S	Slough from Snoq. River Road near E Main St.

